KEMAKKS

26, 33, and 34 are canceled. Accordingly, claims 1-15, 18-24, 27-32, and 36-44 remain active in requested in light of the claim amendments and the following remarks. Claims 1, 6-9, 12-15, 18-20, 24, 27-30, 32, and 35-44 are amended herein, and claims 16, 17, 25, Claims 1-44 were pending, with claims 10 and 39 objected to and the remainder rejected. Reconsideration and allowance of the present application is respectfully

Response to Rejections

Rejections Based on Wynne alone or in combination with Tran or Stallings

grounds that Wynne and Tran are not prior art to the instant application. Communications" to William Stallings. Applicants respectfully traverse these rejections on the under 35 U.S.C. § 103(a) as being unpatentable over Wynne in view of "Data and Computer over Wynne in view of Tran (U.S. Pat. App. 2003/0084246 A1). Claims 21 and 31 were rejected 35 U.S.C. § 102(e) as being anticipated by Wynne (U.S. Pat. App. 2003/0016686 A1). Claims 5, 12, 14, 20, 30, 43 and 44 were similarly rejected under 35 U.S.C. § 103(a) as being unpatentable Original claims 1-4, 6, 7, 11, 15-17, 19, 22-27, 29, 32-38, 41 and 42 were rejected under

U.S.C. §102(e). 2001, filing date. Wynne and Tran are therefore presented as prior art under the provisions of 35 Applicants' filing date, and a filing date of July 18, 2001, prior to Applicants' November 16, Wynne and Tran are published U.S. Patent Applications with a publication date after

the provisions of 37 C.F.R. § 1.131 that further clarified the functionality of the device reduced references, and supplied a list of what the Examiner regarded as deficiencies in the declaration. Final Office Action that the declaration was ineffective to remove declarations, and therefore the declarations are insufficient to overcome the rejections Applicant filed a Request for Continued Examination and a second inventor declaration under declaration under the provisions of 37 C.F.R. § 1.131. The Examiner stated in the March 8, 2006 Applicant argued against these deficiencies. In the Advisory Action of June 28, Applicant submitted, along with the response to the September 21, 2005, Office Action, a agreed to withdraw all but the sixth and seventh objections. The Examiner maintains that certain claim limitations are not established Wynne and Tran as On August 2, 2006,

that include the physical input ports for the buffer manager, including the description: entirely consistent with the patent application description of a lookup engine and C-port blocks (Heeloo Chung 2nd Decl., ¶ 6.) The input for receiving packets is clearly shown on page 1 of proprietary header that was prepended to each packet prior to passing the packet to the Cougar." lookup allowed the Tiger to send the Cougar ASIC packets containing an 'F10 header'-a forwarding databases. The Cheetah's inclusion in the affidavit merely explains where the Tiger buffer manager or any portion thereof, but is a separate ASIC for maintaining and searching Office Action at 3). First, as stated in ¶ 6 of Mr. Chung's declaration, the Cheetah is not the associated with an output queue' (or equivalent) as recited in the claims." (October 3, 2006 Exhibit A, as a "Front End C-Port Interface" in the "data path" from "Tiger." This description is ASIC obtains the output queue assignment for each packet. Mr. Chung states "the forwarding factual evidence provided that the Cheetah is 'an input for receiving packets, each packet With reference to the second declaration, the Examiner states that it is "unclear from the

which the packet is assigned, as well as other data and commands are present in a assigned to a particular VOQ by the lookup engine 40 (FIG. 1). The VOQ to header of each packet. (Application, p. 4, l. 31 to p. 5, l. 8.) By the time the packets have entered the C-port block 110, they have already been

sufficient to equate the two under USPTO guidance: that the F10 ("Force10") header is the proprietary header described (see ¶ 7), and this fact is header format is an 'F10 header' as taught by the rest of the Exhibit." (October 3, 2006 Office show packet header information for a Cougar interface but makes no reference that the packet Action at 3). This objection appears irrelevant, as the inventor and author of Exhibit A has stated The Examiner also states that "the information provided on pages 16-17 of Exhibit A

accompanying exhibit need not support all claimed limitations, provided that any missing limitation is supported by the declaration itself. M.P.E.P. § 715.07.I. must consider all of the evidence presented in its entirety, including the affidavits or declarations and all accompanying exhibits, records and "notes." An However, when reviewing a 37 CFR 1.131 affidavit or declaration, the examiner

header is received with each packet, and the header identifies an output queue association including the inventor declaration—this evidence establishes that at the Cougar packet input a Applicant respectfully requests that the Examiner consider the evidence presented in its entirety,

the applicant, and must be considered as evidence according to the USPTO guidance. The including the description of the packet labeling. This is part of the evidence, not an argument by 4). A description of the example page 12 figure is, however, provided in the declaration, exhibit. Thus it is unclear that 'pla' is a part 'a' of a 'packet 1' as argued by applicant." (Id. at particular, there is no further description with respect to the figure shown on page 12 of the into blocks assigned to those output queues." (October 3, 2006 Office Action at 3). "In storage facility to output queues, and store one or more packets associated with output queues evidence establishes that the Cougar ASIC included the intermediate storage facility manager. intermediate storage facility manager configured to assign particular block of the intermediate The Examiner further states that he "found no evidence that Exhibit A teaches at least an

Rejections Based on Wilford

on the grounds that Wilford fails to disclose all elements of any rejected claim anticipated by Wilford (U.S. Pat. 6,687,247 B1). Applicant respectfully traverses this rejection Original claims 1-9, 11-28, and 40-44 were rejected under 35 U.S.C. § 102(e) as being

destination output queues," thus leaving no question that the intermediate storage facility is not particular blocks of the intermediate storage facility to buffer packet data according to manager to assign particular blocks of the intermediate storage facility to output queues. the original claim language. For instance, claim I recited an intermediate storage facility and the output queues but intermediate storage as packet data moves toward the output queues facility" is the queue memory. Dependent claims 6-9 and 12-14 have been amended to make explicit that the "second storage Applicant has amended this language to make explicit the block assignment—"to assign Applicant has amended the claims of the application to make explicit what is implied by

sorting of packet data into groups having common assigned output queues for storage in the canceled dependent claims 16, 17, 25, 26, 33, and 34. Claims 15, 24, and 32 now recite the buffer memory, and block storage memory to received the grouped packet data. Independent claims 15, 24, and 32 have been amended using, e.g., concepts from now-

aligned within each group has a common output queue, and that the packet data groups are buffered in the blocks of a memory buffer prior to selection for storage in a memory device Independent method claim 35 has been amended to make explicit that the packet data

consistency with amended claim 35. No new matter has been added by the amendments comprising the output queues. The remaining dependent claims have been amended to provide

destination output queues as claimed: FIFO as an intermediate storage facility, and thus does not assign particular blocks according to accentuated by the amendment that makes explicit the limitation wherein the intermediate storage queue memory as the intermediate storage facility. This reading is incorrect, as is further queues into the blocks assigned to those output queues." The rejection appears to read Wilford's according to destination output queues, and store one or more packets associated with the output configured to assign particular blocks of the intermediate storage facility to buffer packet data facility buffers packet data according to destination output queues. Wilford uses a simple cell Wilford at least because Wilford fails to teach "an intermediate storage facility manager Regarding the Wilford rejection, with respect to claim 1, that claim is patentable over

dequeued from the Input Cell FIFO and written into DRAM to the appropriate stream and the DRAM write operations which are not deterministic...Cells are output queue. (Wilford, col. 31, ll. 25-36.) Input Cell FIFO. This 32 Kbit buffer provides some smoothing between the input Packets that pass the RED test are segmented into 64 byte cells and written into an

rejection applies to teachings found in Wilford. an intermediate storage facility and facility manager as claimed. Further, with respect to claim 9, generally points to functions of Wilford's output queue and queue manager, and not to functions of Applicant did not understand the rejection "see, e.g., CAR which uses tokens" and how the Regarding the additional limitations found in the dependent claims of claim 1, the rejection

teach a buffer memory and buffer memory manager as claimed. As noted above, Wilford uses an manager for the FIFO is used having blocks of storage locations as claimed. As Wilford's Input Cell FIFO is merely a FIFO, no Input Cell FIFO to store packet cells prior to writing to DRAM queues, not a buffer memory Regarding claim 15, that claim is patentable over Wilford at least because Wilford fails to

functions of a buffer memory and buffer memory manager that operate prior to output queueing. rejection generally points to functions of Wilford's output queue and queue manager, and not to Regarding the additional limitations found in the dependent claims of claim 15,

patentability of claim 15 and its dependent claims Claims 24 and 27-32 are patentable over Wilford at least for the reasons presented above

switch functions, and not to functions performed during buffering prior to writing to output queues. generally points to functions of Wilford's output queue and queue manager or other unrelated alignment into packet data groups and buffering the groups for storage in output queues queues. As described above, Wilford stores packets in an Input Cell FIFO as received, with no selecting buffered packet data groups for storage in a memory device comprising the output packets into groups of packet data, each group comprising packet data having the same output Regarding the additional limitations found in the dependent claims of claim 35, the rejection queue, buffering the packet data groups in the blocks of a memory buffer arranged by blocks, and Claim 35 is patentable over Wilford at least because Wilford fails to teach aligning data

Rejections Based on Barri

patentable over Barri, Applicant may elect to traverse the application on grounds that Barri is not Applicant has not at this point gone to the expense of procuring yet another inventor declaration, the grounds that Barri fails to disclose all elements of any rejected claim. Furthermore, although anticipated by Barri (U.S. Pat. 6,757,795 B2). Applicant respectfully traverses this rejection on April 3, 2001 priority date. Should the Examiner disagree that the amended claims are clearly Applicant does not concede that Barri is prior art to the instant application based on the claimed Original claims 1, 15, 24, 32, and 35 were rejected under 35 U.S.C. § 102(e) as being

structure and method for reading out of DRAM memory 51, not into the DRAM memory, and elements of the rejected claims as proposed in the rejection. thus Applicant fails to appreciate how the elements of Figure 3 can possibly relate to the memory system 21 shown in Figure 1B. Barri Figure 3 and the accompanying text refers to a The Examiner alleges that the intermediate storage facility is taught as the DRAM

write requests in order to write receive data into individual buffers in memory system 21." Figure 1B, "receiver controller 22 receives data from incoming bus labeled Data_in and issues clear that no intermediate storage facility or facility manager is disclosed. With reference to with output queues, and Applicant could not locate this element in Barri. Further, in Barri, it is that Applicant has been unable to locate in Barri), according to Barri the receiver controller 22 (Barri, col. 4, ll. 52-55). Thus even if the memory system 21 includes output queues (a teaching It is also not clear from the rejection that Barri receives at the input packets associated

fails to buffer packet data according to destination output queues within an intermediate storage merely writes received data to the memory system in the order received, like Wilford above, and facility as claimed

remaining independent claims A similar analysis following along the lines given above for Wilford is applicable to the

withdrawn. Accordingly, Applicant respectfully requests that the rejection based on Barri be

Response to Objections

objections be withdrawn. depend are patentable over the art of record. base claim. Claims 10 and 39 were pending and were objected to as being dependent upon a rejected For the aforementioned reasons, the base claims from which claims 10 and 39 Applicants respectfully request that the instant

Conclusion

undersigned at 512.867.8502 if it appears that an interview would be helpful in advancing the 24, 27-32, and 36-44 as presently constituted. The Examiner is encouraged to telephone the For the foregoing reasons, Applicants respectfully request allowance of claims 1-15, 18-

Respectfully submitted,

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CERTIFICATE OF TRANSMISSION

I hereby certify that this correspondence is being transmitted to the United States Patent and Trademark Office, via EFS-Web, on the date indicated below:

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